

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number  
**WO 2005/049574 A1**

(51) International Patent Classification<sup>7</sup>: **C07D 213/74,**  
A61K 31/4965

and Development, 2800 Plymouth Road, Ann Arbor, MI  
48105 (US).

(21) International Application Number:  
PCT/IB2004/003668

(74) Agents: **FULLER, Grover, F., Jr.** et al.; Pfizer Inc., 201  
Tabor Road, Morris Plains, NJ 07950 (US).

(22) International Filing Date:  
8 November 2004 (08.11.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/523,885 20 November 2003 (20.11.2003) US

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*):  
**WARNER-LAMBERT COMPANY LLC** [US/US];  
201 Tabor Road, Morris Plains, NJ 07950 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **HU, Lain-Yen**  
[US/US]; Pfizer Global Research and Development, 2800  
Plymouth Road, Ann Arbor, MI 48105 (US). **DU, Daniel,**  
**Yunlong** [US/US]; Pfizer Global Research and Develop-  
ment, 2800 Plymouth Road, Ann Arbor, MI 48105 (US).  
**LEI, Huangshu** [CA/US]; Pfizer Global Research and  
Development, 2800 Plymouth Road, Ann Arbor, MI 48105  
(US). **YUE, Wen-Song** [US/US]; Pfizer Global Research

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: ANDROGEN RECEPTOR MODULATORS

(57) Abstract: The present invention is directed to a new class of 5-cyano-2-amino pyridines and to their use as androgen receptor modulators. A further aspect of the invention is directed to a new animal model for finding compounds capable of alleviating androgenic alopecia.

WO 2005/049574 A1